

CLAIM

A machine for concurrently measuring angles about a plurality of axes of a single plane, by means of gravity sensing tilt sensor(s), said plane representing a surface, said machine further compounding the said angles to locate and measure the full slope of said plane, and further comprising a numerical, digital, or analogue display or output of the maximum degree of slope or compound angle, and also comprising

a graphic display depicting the line along which the compound angle lies

or

a graphic display depicting the intersection of a vertical plane and the plane of the surface of which the slope is being measured, the vertical plane being oriented in the direction of the greatest slope of the plane of the surface of which the slope is being measured

or

a graphic display depicting the relative direction of greatest slope of the plane of the surface of which the slope is being measured

or

a graphic display depicting the line along which the maximum slope of the surface lies.

Each of the above underlined phrases actually communicates the same thing, each in a different way. The choice of a phrase to express this feature is really the heart of the matter. We can, with your informal concurrence, include them all in one independent claim. That way, each can further define the others.

I have here included two sketches of a RICHTER device in operation on two pool

tables, each table having a different slope direction and degree. (I have exercised artistic license in illustration of the device, including only the essentials to make the operation understandable.) The sketches illustrate the fact that the device locates and measures the full slope of a surface and displays the direction and degree of the slope, no matter what the direction of the slope relative to the device. The device would also work the same way, of course, on a bowling alley lane, or on a landscaped surface, or on a hillside, or on any other planar surface, the slope of which one might desire to locate and measure.

There appears to be no other technology that can perform the task illustrated. Definitely, none of the referenced technologies, nor combinations of the referenced technologies can do it.

If the above information, in principle, successfully clarifies, to your satisfaction, the novelty and unobviousness of RICHTER's invention, then I shall promptly create the proper claims to render the application compliant with your requirements and request that the patent be allowed.

Very respectfully,

David Douglas Winters

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